

SECTION 2. PROJECT REVIEW AND PERMITTING PROCESS

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SECTION 2. PROJECT REVIEW and PERMITTING PROCESS

City of Chula Vista Municipal Code Section 14.20.120.A. makes it unlawful for any person not to comply with the BMPs and pollution control requirements established by the City or other responsible agency to eliminate or reduce pollutants entering the City's storm water conveyance systems. It further provides that BMP requirements shall be complied with throughout the life of the activity. These storm water pollution prevention requirements, which are described in detail in the following sections are site specific and vary based on the project's potential impact on receiving water quality. The steps below describe the elements of the plan review and permitting processes for storm water BMP requirements. Figure 2.1, "Review and Approval Process for Development and Redevelopment Projects", demonstrates how construction and permanent storm water requirements are incorporated into projects requiring subdivision approvals, development permits, construction permits, or other approvals.

Public projects are also subject to the requirements of this Manual. Although this Manual is designed to address private development projects, City project managers will use this document to identify storm water requirements to be incorporated into capital improvement projects.

I. Determine Applicable Storm Water BMP Requirements

Prior to submittal, applicants must complete the applicable Forms 5500 through 5504A, included in Section 2.VI, "Applicability Checklists and Forms", to determine if their project is subject to permanent and/or construction storm water BMP requirements. These forms must be completed for all permit applications, even if previous approvals exist. Projects with previous approvals that have obtained their Grading, Construction, or Building Permit before March 24, 2008, are required to comply with the storm water requirements of the NPDES Municipal Permit, Order No. 2001-01 and the "City of Chula Vista Development and Redevelopment Projects Storm Water Management Standards Requirements Manual" dated November 26, 2002. Projects that have not obtained their Grading, Construction, or Building Permit before March 24, 2008, are required to comply with the requirements of the NPDES Municipal Permit, Order No. R9-2007-0001 and this Manual. The applicable forms must be completed, signed by the responsible party for the project, and submitted to the City with the permit application. For private projects, the project design must include all required permanent BMPs in order for the application package to be deemed complete. For public projects, all required permanent BMPs must be incorporated in the project design and the City project manager will be responsible to ensure that all permanent BMP requirements are met.

1. Permanent Storm Water BMP Requirements

a. Standard Requirements. Projects subject to standard permanent storm water requirements (projects not subject to SUSMP requirements) must incorporate all applicable permanent BMPs included in Form 5501 and Section

6 of this Manual, “Standard Permanent Storm Water BMPs Requirements” into the project design. Refer to Section 2.II, “Prepare & Submit Appropriate Plans,” for guidance in the BMP design process.

b. Priority Project Requirements. Projects subject to priority project permanent storm water requirements must incorporate all applicable requirements included in the project’s Water Quality Technical Report, as approved by the City Engineer, into the project design. This includes the Site Design, Low Impact Development, Source Control, and Treatment Control BMPs, as well as BMPs applicable to individual priority project categories. If a priority project meets more than one priority project category definition, the project is subject to all BMPs applicable to individual priority project categories that apply. For example, if a project proposes to build 50 attached residential units and a 6,000 square foot restaurant with a 70-space surface parking lot, the project would be subject to the individual priority project category BMP requirements for “Attached Residential Development,” “Restaurants,” and “Parking Lots”. Refer to Section 2.II, “Prepare & Submit Appropriate Plans,” for guidance in the permanent BMP design process.

Developers of projects subject to priority project requirements must prepare and submit to the City a Water Quality Technical Report (WQTR) in accordance with Section 4 of this Manual. Analysis of the project’s anticipated Pollutants of Concern, anticipated Pollutants of Concern in downstream receiving waters, and Conditions of Concern (including Interim Hydromodification Management), must also be included in the WQTR as part of the project submittal.

2. Construction Storm Water BMP Requirements

Projects subject to construction storm water BMPs requirements must comply with the standards included in Section 7, “Construction Storm Water BMPs Performance Standards,” as appropriate, depending upon the site conditions, season, project design, and construction methods. Refer to Section 2.II, “Prepare and Submit Appropriate Plans,” for guidance to ensure construction BMP performance standards are met.

II. Prepare and Submit Appropriate Plans

After determining the general categories of storm water requirements that apply to the project in Section 2.I, “Determine Applicable Storm Water BMP Requirements,” (e.g., construction BMPs, standard permanent BMPs, and/or priority project permanent BMPs), refer to the instructions in this section to determine what analysis and/or specific BMP requirements in Sections 2.VI, 3, 7, & 8 of the Manual must be provided and/or incorporated into the project. Projects are only required to provide applicable BMPs. For example, an attached residential development project subject to the priority project requirements would not have to meet the “private road” requirements in this Manual if no private roads are proposed. In addition, the City may approve proposed alternatives

to the BMP requirements in this Manual if said alternatives are determined by the City to be applicable and equally effective.

1. Permanent Storm Water BMPs

“Permanent Best Management Practices Selection Procedure” (refer to Section 3 and Form 5501, as applicable) contains a process for reviewing the project site’s location and preliminary project design before progressively identifying and incorporating Site Design BMPs, Low Impact Development, Source Control BMPs, requirements for individual priority project types, and Treatment Control BMPs into the project design. The procedure is organized so that the level of analysis required is commensurate with the potential pollutant type and quantity, the location of the project relative to receiving waters and sensitive areas, and the type of storm water requirements that apply to a particular project.

a. Standard Requirements (refer to Form 5501). Development Projects subject to standard permanent BMP requirements must complete and incorporate applicable permanent BMPs identified in this Manual into the project plans prior to submittal, regardless of project type. The City may approve proposed alternatives to the BMP requirements in this Manual if said alternatives are determined by the City to be applicable and equally effective. Also, additional analysis or information may be required by the City to enable staff to determine the adequacy of proposed BMPs, and will be requested through the project review process.

b. Priority Project Requirements (refer to Section 3). Development Projects subject to the priority project permanent BMP requirements must complete all of the analyses required in Section 3 (SUSMP Requirements). Applicants must incorporate applicable permanent BMPs identified in this Manual into the project plans prior to submittal, regardless of project type. In addition, developers of projects subject to priority project requirements must prepare and submit to the City a Water Quality Technical Report (WQTR) in accordance with Section 4 of this Manual. Analysis of the project’s anticipated Pollutants of Concern, anticipated Pollutants of Concern in downstream receiving waters, and conditions of concern, must also be included in the WQTR as part of the project submittal.

2. Construction Storm Water BMPs (refer to Section 7)

Section 7, “Construction Storm Water BMPs Performance Standards,” describes the construction site management requirements that must be met. In addition, Section 7 lists the performance standards that construction sites must meet and provides a list of erosion control, sediment control, and materials management BMPs for reference.

a. Construction Projects One Acre or Over Those projects that have been determined to require construction BMPs in Section 2.I above must identify the construction BMPs to be implemented in accordance with the performance standards in Section 7, "Construction Storm Water BMP Performance Standards." If a project disturbs one acre or more, the applicant must submit a Storm Water Pollution Prevention Plan (SWPPP), which identifies all construction BMP requirements required by Section 7, in accordance with Order No. 99-08-DWQ of the State General Permit for Storm Water Discharges Associated with Construction Activity (State General Construction Permit), or its subsequent re-issuances. Consistent with the State General Construction Permit, the City will require that both erosion and sediment control BMPs be installed and maintained for all applicable projects in addition to good housekeeping BMPs, site management, and materials management. Form 5503 in Section 2.VI provides general guidelines for preparation of a SWPPP as well as a more detailed checklist to meet the requirements.

b. Construction Projects Under 1 Acre Those projects that have been determined to require construction BMPs in Section 2.I must identify the construction BMPs to be implemented in accordance with the performance standards in Section 7, "Construction Storm Water BMPs Performance Standards." For projects that disturb less than one acre and are determined by the City to have a potential to impact water quality during construction, the applicant must provide a completed Construction Storm Water Management Plan (CSWMP), which identifies all construction BMP requirements required by Section 7, with the project submittal. The CSWMP shall depict the BMPs to be implemented during construction to reduce/eliminate discharges of pollutants to the storm drainage system. The CSWMP shall include, but not be limited to, erosion and sediment control BMPs, good housekeeping BMPs, site management, and materials management (See Forms 5504A and 5504B in Section 2.VI of this Manual).

After preparing plans and supporting documents according to the requirements in this Manual, submit plans to the City for review (See Section 2.III).

III. Determine Adequacy of Proposed Plans

The City will review submitted plans for compliance with the applicable storm water requirements contained in this Manual. The City may approve proposed alternatives to the BMP requirements in this Manual if said alternatives are determined by the City to be applicable and equally effective. Additional analysis or information may be required by the City to enable staff to determine the adequacy of proposed BMPs. After all storm water requirements have been approved by the City, proceed to Section 2.IV to assure implementation and maintenance of the approved BMPs through permit conditions, plan notes, and if necessary, maintenance agreements.

IV. Assure Implementation and Maintenance of Requirements

Applicants must provide assurances that permanent storm water BMPs will be constructed and permanently maintained throughout the use of a developed site, and that construction BMPs will be implemented and maintained until construction is complete. Construction and permanent BMP requirements as described below must be assured during the development projects review processes. After the City has approved all construction and/or permanent BMPs, refer to Section 8, "Implementation and Maintenance Requirements," to determine how construction and permanent BMP implementation and maintenance will be assured.

1. Private Development Projects

Permanent storm water requirements shall be incorporated into the project design and be shown on the plans prior to the issuance of any permits. If the project is required to provide construction BMPs, the permit/approval shall include a BMP Maintenance Plan (refer to Section 8). In addition, permanent BMPs maintenance requirements shall be noted on the plans.

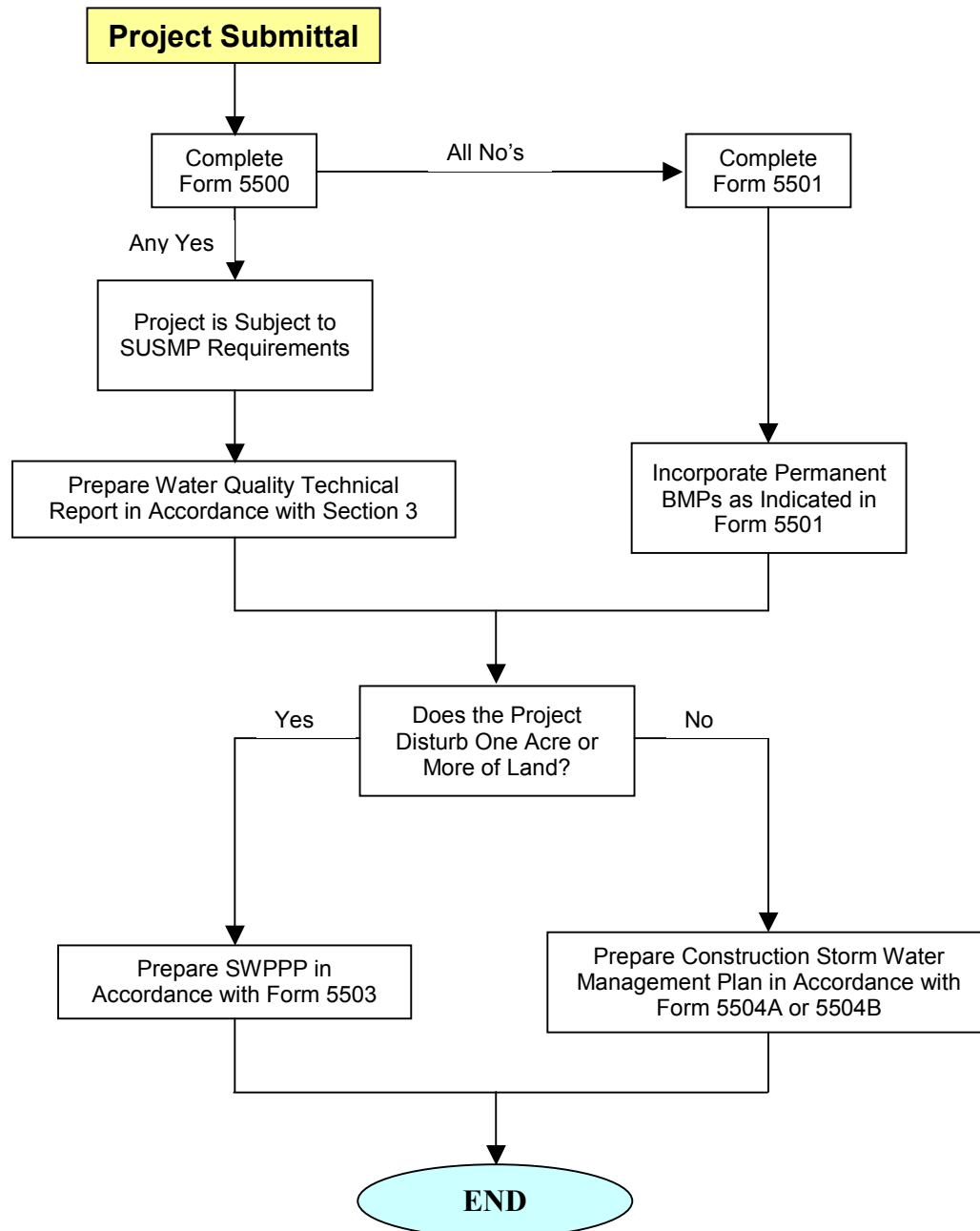
Any construction and non-structural BMPs requirements that cannot be shown graphically must be either noted or stapled to the plans and made a condition of the permit/approval process, as applicable.

Also, in the Covenants, Conditions, and Restrictions (CC&Rs) document and Maintenance Agreements or other mechanism, the following requirements shall be included and addressed:

- Include requirements for compliance with non-structural permanent BMPs
- Provide for long-term maintenance of structural BMPs
- Require future tenants or owners to comply with the Standard Urban Storm Water Mitigation Plans (SUSMP) and Numeric Sizing Criteria of the Municipal Permit, Order No. R9-2007-0001

2. Public Development Projects

For public projects, permanent as well as construction BMP requirements will be incorporated into the project design and shown on the plans prior to bidding for construction contracts, or equivalent. Public project contracts will also add the requirement for the project to implement and maintain construction BMP requirements in accordance with this Manual. Construction and permanent BMP maintenance requirements will be noted on the plans. A signature by the responsible department or section will be required on all final plans that signifies compliance with storm water requirements.


V. Figure 2.1**Review and Approval Process for Development and Redevelopment Projects**

VI. Applicability Checklists and Forms

Please refer to the following pages for Applicability Checklists and Forms.

Forms in this section include:

- Form 5500 – Permanent Storm Water BMPs Applicability Checklist
- Form 5501 – Standard Permanent BMPs Requirements
- Form 5502 – Storm Water Treatment BMPs Inspection and Maintenance Certification
- Form 5503 – Storm Water Pollution Prevention Plan (SWPPP) Guidelines
- Form 5504A – Construction Storm Water Management Plan (CSWMP) Guidelines for
Private Development
- Form 5504B – Construction Storm Water Management Plan (CSWMP) Guidelines for
Public Projects

 <p>CITY OF CHULA VISTA</p>	<p>ENGINEERING AND GENERAL SERVICES DEPARTMENT</p> <p>276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5021 Fax: (619) 691-5171</p>	<p>PERMANENT STORM WATER BMPs APPLICABILITY CHECKLIST</p>
<p>FORM 5500</p>		

Complete the following checklist to determine the project's permanent and construction Best Management Practices requirements. This form must be completed and submitted with the permit application.


If one or more questions in the checklist are answered "Yes", the project is subject to the "Priority Project Permanent Storm Water BMPs (SUSMP) requirements in Section 3. If all answers are "No", please complete Form 5501 to determine if the project is subject to the "Standard Permanent Storm Water BMP" requirements.

Does the project meet the definition of one or more of the Priority Development Project Categories below? Also, refer to the definitions in the NPDES Municipal Permit, Order No. R9-2007-0001, and Sections 3 and 9 of this Manual for expanded definitions of the Priority Development Project Categories and the Significant Redevelopment priority projects.

Priority Development Project Categories

		Yes	No
1	Housing subdivisions of 10 or more dwelling units.		
2	Commercial developments greater than one acre		
3	Developments of heavy industry greater than one acre		
4	Automotive repair shops		
5	Restaurants		
6	All Hillside development greater than 5,000 square feet		
7	Environmentally sensitive areas		
8	Parking lots 5,000 square feet or more or with 15 or more parking spaces and potentially exposed to urban runoff		
9	Streets, roads, highways, and freeways		
10	Retail Gasoline Outlets		
11	Redevelopment projects that create, add, or replace at least 5,000 square feet of impervious surfaces on an already developed site that falls under the project categories or locations listed above		
12	On or after January 24, 2010, all other pollutant generating Development Projects that result in the disturbance of one acre or more of land		

Limited Exclusion: Trenching and resurfacing work associated with utility projects are not considered priority projects unless the project results in new impervious surfaces. Parking lots, buildings, and other structures associated with utility projects are priority projects if one or more of the criteria is met.

 <p>CITY OF CHULA VISTA</p>	<p>ENGINEERING AND GENERAL SERVICES DEPARTMENT</p> <p>276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5021 Fax: (619) 691-5171</p>	<p>STANDARD PERMANENT BMPs REQUIREMENTS</p>
<p>FORM 5501</p>		

Section 1 - Checklist

This form is to be completed if, in completing Form 5500, it is determined that the project is not a "Priority Development (SUSMP) Project". Complete the following checklist to determine the applicability of Standard Permanent BMPs to the project. Sign the Certification Statement in Section 2 of this form and submit it with your permit application package.

If one or more questions in the following checklist are answered "Yes", the project is subject to the applicable "Standard Permanent BMPs" requirements identified in Section 3 of this form. If all answers are "No", the project is exempt from Standard Permanent Storm Water BMPs.

	Does the project propose:	Yes	No	Applicable BMPs (refer to Section 2 of this form)
1	New impervious areas, such as rooftops, roads, parking lots, driveways, paths, and sidewalk?			A.1, A.2, B.1, C.1, C.2, C.8, C.11
2	New pervious landscape areas and irrigation system?			A.1, A.2, B.4, C.10
3	Permanent structures within 100 feet of any natural water body?			A.1, A.2, A.3
4	Trash storage areas?			B.3
5	Liquid or solid material loading and unloading areas?			B.2, C.3
6	Vehicle or equipment fueling, washing, or maintenance areas?			C.4, C.5, C.6, C.7, C.9
7	Require a General NPDES Permit for Storm Water Discharges Associated with Industrial Activities (other than Construction)?*			Applicable BMPs
8	Commercial or industrial waste handling or storage, excluding typical office or household waste?			B.2, B.3, C.3, C.6
9	Any grading or ground disturbance during construction?			A.1, A.2, A.3, C.10
10	Any new storm drains, or alteration to existing storm drains?			A.3, B.1, C.11

*To find out if the project is required to obtain an individual NPDES General Permit for Storm Water Discharges Associated with Industrial Activities, visit the State Water Resources Control Board website at, www.swrcb.ca.gov/stormwtr/industrial.html Applicable BMPs shall be selected from Section 3 of this form.

Section 2 - Certification – The property owner must sign this section certifying that they understand the City's standard permanent BMPs requirements for storm water management on development and redevelopment projects and will implement and maintain the selected BMPs and ensure that mechanisms are in place to properly and effectively maintain the selected BMPs. The following certification must be signed and submitted with the permit application package.

I have read and understand that the City of Chula Vista has adopted Standard Permanent BMPs requirements for storm water management of development projects. I certify that the BMPs applicable to the project as marked in the Checklist in Section 1 of this form will be implemented to effectively minimize the potentially negative impacts of this project on storm water quality. I further agree to ensure that mechanisms are in place to properly and effectively maintain the implemented BMPs. I also understand that non-compliance with the City's Storm Water and Grading Ordinances may result in enforcement action by the City including citations, civil penalties, or other actions as provided in the Chula Vista Municipal Code.

Property Owner Name: _____ Signature: _____ Date: _____

Section 3 – Standard Permanent BMPs

Development Projects subject to standard permanent BMP requirements shall complete and incorporate all necessary permanent BMPs into the project plans prior to submittal, regardless of project type. The City may approve proposed alternatives to the BMP requirements in this Manual if said alternatives are determined by the City to be applicable and equally effective. Also, additional BMPs, analysis or information may be required by the City to enable staff to determine the adequacy of proposed BMPs, and will be requested through the project review process. Refer to Sections 2.I.1 and 2.II of this Manual, "Permanent Storm Water BMP Requirements" and "Prepare & Submit Appropriate Plans," for guidance in the BMP design process.

Projects shall incorporate, where applicable, storm water BMPs into the project design, in the following progression:

- Site Design BMPs
- Source Control BMPs
- BMPs for Individual Project Categories

The series of BMPs listed below have been organized sequentially to allow the applicant and design professional to incorporate the site design, source control BMPs, and where necessary, requirements applicable to individual project categories in this progression. Detailed descriptions and requirements of BMPs are provided in Section 6 of this Manual.

A. Site Design BMPs

A.1. Minimize Project's Impervious Footprint & Conserve Natural Areas

- a. Minimize impervious footprint.
- b. Conserve natural areas where feasible, consistent with the City's environmental regulations.
- c. Where feasible and practical, as determined by the City Engineer, construct walkways, trails, patios, overflow parking lots and alleys and other low-traffic areas with permeable surfaces.
- d. Construct streets, sidewalks and parking lot aisles to the minimum acceptable widths.
- e. Maximize canopy interception and water conservation.
- f. Use natural drainage systems to the maximum extent practicable.
- g. Other site design options that are comparable, and equally effective, as approved by the City.

A.2. Minimize Directly Connected Impervious Areas (DCIAs)

- a. Where landscaping is proposed, drain rooftops into adjacent landscaping prior to discharging to the storm drain.

- b. Where landscaping is proposed, drain impervious sidewalks, walkways, trails, and patios into adjacent landscaping.
- c. Other design characteristics, which are comparable and equally effective, as approved by the City.

A.3. Protect Slopes and Channels

- a. Convey runoff safely from the tops of slopes.
- b. Vegetate slopes with deep-rooted native or drought tolerant vegetation.
- c. Control and treat flows in landscaping and/or other controls prior to reaching existing natural drainage systems.
- d. Stabilize permanent channel crossings.
- e. Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels.
- f. Other design principles, which are comparable and equally effective, as approved by the City.

B. Source Control BMPs.

B.1. Provide Storm Drain System Stenciling and Signage

- a. Provide stenciling, labeling, or stamping in fresh concrete with “NO DUMPING” signs.
- b. Post signs and prohibitive language and/or graphical icons which prohibit illegal dumping.
- c. Maintain legibility of stencils and signs.

B.2. Design Outdoor Material Storage Areas to Reduce Pollution Introduction

- a. Place hazardous materials in an enclosure or protect them by secondary containment structures.
- b. Pave storage areas with impervious pavements, graded to prevent run-on and run-off.
- c. Provide roof or awning over storage areas.
- d. Other methods, which are comparable and equally effective within the projects, as approved by the City.

B.3. Design Trash Storage Areas to Reduce Pollution Introduction

- a. Pave with an impervious surface, designed not to allow run-on from adjoining areas and screened or walled to prevent off-site transport of trash.
- b. Provide roof or awning to minimize direct precipitation and prevent run-off.
- d. Other design characteristics, which are comparable and equally effective, as approved by the City Engineer.

B.4. Use Efficient Irrigation Systems & Landscape Design, and Employ Integrated Pest Management Principles

- a. Design the timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm drainage system (Best Irrigation Practices). Consider and implement the following methods:
 - Employ rain shutoff devices to prevent irrigation during or after precipitation.
 - Design irrigation systems to each landscape area's specific water requirements.
 - Use flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
 - Provide water conservation educational materials to future residents/tenants.
 - Employ other comparable, equally effective, methods to reduce irrigation water runoff.
- b. Employ Integrated Pest Management Principles

Eliminate and/or reduce the need for pesticide use in the project design by:

- Planting pest-resistant or well-adapted plant varieties such as native plants.
- Discouraging pests by modifying the site and landscaping design.

Distribute IPM educational materials to future site residents/tenants. Minimally, educational materials must address the following topics:

- Keeping pests out of buildings and landscaping using barriers, screens, and caulking.
- Physical pest elimination techniques, such as weeding, squashing, trapping, washing, or pruning out pests.
- Relying on natural enemies to eat pests.

- Proper use of pesticides as a last line of defense.

C. BMPs Applicable to Individual Project Categories

C.1. Private Roads

- a. Rural swale system: Direct street sheet flows to vegetated swale or gravel shoulder, curbs at street corners, culverts under driveways and street crossings.
- b. Urban curb/swale system (street slopes to curb): Install periodic swale inlets that drain to vegetated swales/biofilters.
- c. Dual drainage system: First flush captured in street catch basins and discharged to adjacent vegetated swale or gravel shoulder; high flows connect directly to storm water conveyance system.
- d. Other methods, which are comparable and equally effective within the project, as approved by the City.

C.2. Residential Driveways & Guest Parking

- a. Design driveways with shared access among multiple properties, flares (single lane at street), or wheel strips (paving only under tires); or drain into landscaping prior to discharging to the storm water conveyance system.
- b. Uncovered temporary or guest parking on private residential lots may be: paved with a permeable surface; or, designed to drain into landscaping prior to discharging to the storm water conveyance system.
- c. Other features which are comparable and equally effective, as approved by the City.

C.3. Dock Areas

- a. Cover loading dock areas, or design drainage to preclude run-on and runoff.
- b. Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.
- c. Other features which are comparable and equal effective, as approved by the City.

C.4. Maintenance Bays

- a. Repair/Maintenance bays shall be indoors or designed to preclude run-on and run-off.
- b. Design a repair/maintenance bay drainage system to capture all wash water, leaks, and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by the City, obtain an Industrial Waste Discharge Permit.
- c. Other features, which are comparable and equally effective, as approved by the City.

C.5. Vehicle Wash Areas

- a. Self-contained; or covered with a roof or overhang.
- b. Equipped with a clarifier or other pretreatment facility.
- c. Properly connected to a sanitary sewer, as approved by the City.
- d. Other features which are comparable and equally effective, as approved by the City.

C.6. Outdoor Processing Areas

- a. Cover or enclose areas that would be the most significant source of pollutants; slope the area towards a dead-end sump; or, discharge to the sanitary sewer system following appropriate treatment in accordance with conditions established by the applicable sewer agency.

- b. Grade or berm area to prevent run-on from surrounding areas.
- c. Installation of storm drains in areas of equipment repair is prohibited.
- d. Other features which are comparable or equally effective, as approved by the City.

C.7. Equipment Wash Areas

Outdoor equipment/accessory washing and steam cleaning activities at projects shall meet the following requirements:

- a. Be self-contained or covered with a roof or overhang.
- b. Be equipped with a clarifier, grease trap, or other pretreatment facility, as appropriate.
- c. Be properly connected to a sanitary sewer after first obtaining a permit from the City of San Diego Metropolitan Wastewater Department.
- d. Other features which are comparable or equally effective, as approved by the City.

C.8. Parking Areas

- a. Where landscaping is proposed in parking areas, incorporate landscape areas into the drainage design.
- b. Outdoor parking areas should be constructed with permeable paving, where feasible and practical. Permeable paving should be strongly considered for overflow parking (parking stalls provided in excess of the City of Chula Vista's minimum parking requirements).
- c. Other design concepts, which are comparable and equally effective, as approved by the City.

C.9. Fueling Area


- a. Provide overhanging roof structure or canopy.
- b. Pave with Portland cement concrete (or equivalent smooth impervious surface). The use of asphalt concrete shall be prohibited.
- c. Provide an appropriate slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on.
- d. At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.
- e. Other features which are comparable or equally effective, as approved by the City Engineer.

C.10. Hillside Landscaping

- a. Hillside areas disturbed by project development shall be landscaped with deep-rooted, drought tolerant plant species selected for erosion control, satisfactory to the City of Chula Vista.
- b. Other features which are comparable or equally effective, as approved by the City.

C.11. Design of Drainage Systems for Industrial/Commercial facilities

- a. Avoid sheet flow of runoff to the street gutter.
- b. Provide filtration, infiltration, or other Best Management Practices satisfactory to the City of Chula Vista before discharging runoff to public storm drainage systems.
- c. The property owner or an approved private entity shall maintain all private storm drainage systems in perpetuity.
- d. The ongoing storm drainage systems maintenance records shall be kept on site indicating at the minimum: type of system, operator name, inspection/maintenance date, and maintenance activity type.

 CITY OF CHULA VISTA	PUBLIC WORKS – STORM WATER MANAGEMENT SECTION 1800 Maxwell Road, Chula Vista, CA 91911 Phone: (619) 397-6111 Fax: (619) 397-6259	STORM WATER TREATMENT BMPs INSPECTION AND MAINTENANCE CERTIFICATION FORM
	FORM 5502	

Section 1

The following is a list of storm water treatment BMPs that may exist within your development. Please indicate the number of each type of BMP existing in your development and list the dates of inspections and maintenance activities during the past 12 months.

Type of BMP →	Filter Insert	Hydrodynamic Separator	Wet Vault	Vegetated Swale	Bio Retention	Other _____
Number of Units →						
<input type="checkbox"/> Inspection						
<input type="checkbox"/> Maintenance						
<input type="checkbox"/> Inspection						
<input type="checkbox"/> Maintenance						
<input type="checkbox"/> Inspection						
<input type="checkbox"/> Maintenance						
<input type="checkbox"/> Inspection						
<input type="checkbox"/> Maintenance						
<input type="checkbox"/> Inspection						
<input type="checkbox"/> Maintenance						

Section 2

The following certification must be signed and returned to the City of Chula Vista as explained in the cover letter.

I understand that the development entitlement agreements for the development that I represent includes inspection and maintenance requirements for storm water treatment facilities. Further, I understand that Chula Vista Municipal Code Chapter 14.20, and the Chula Vista Development Storm Water Manual include requirements for the minimization of polluted discharges through the use of Best Management Practices. I certify that the information provided in Section 1 above is, to the best of my knowledge, true and accurate.


I also understand that non-compliance with the City's storm water management regulations may result in enforcement action by the City, including but not limited to, notices of violation, citations, fines, cease and desist orders, and/or other enforcement actions.

Name and Title: _____

Development Name: _____

Address: _____

Signature: _____ Date: _____

 <p>CITY OF CHULA VISTA</p>	<p>ENGINEERING AND GENERAL SERVICES DEPARTMENT</p> <p>276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5021 Fax: (619) 691-5171</p>	<p>STORM WATER POLLUTION PREVENTION PLAN (SWPPP) GUIDELINES</p>
<p>FORM 5503</p>		

The SWPPP shall be prepared in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Construction Permit. At a minimum, the SWPPP must cover the topics listed in the checklist below. The SWPPP must be kept on site and made available upon request of a representative of the City of Chula Vista. Projects that are also required to obtain coverage under an NPDES General Construction Permit are encouraged to visit the State Water Resource Control Board's website for permit application instructions regarding Notice of Intent (NOI) and Notice of Termination (NOT) forms, and guidance in preparing a SWPPP at www.swrcb.ca.gov/stormwtr/docs/constpermit.


The SWPPP shall address the required items marked in the left hand column of the table below. This checklist has been prepared based on the requirements of the NPDES Order No. 99-08-DWQ. With the future re-issuance of the NPDES Order, development and redevelopment applicants will be required to comply with the requirements of said Order and any re-issuances thereof, and this checklist will be updated accordingly.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REVIEW CHECKLIST

	Description	Permit Section
1	The landowner (discharger) or his representative must sign the SWPPP and include the date of initial preparation and the date of each amendment	A.1, A.16, C.9
2	Identify all pollutant sources including sources of sediment	A.1.a, A.5.b
3	Identify non-storm water discharges	A.1.b
4	Identify and provide a time schedule for construction, implementation, and maintenance of Best Management Practices (BMPs)	A.1.c
5	Develop a maintenance schedule for post-construction BMPs	A.1.d
6	Include project information, including vicinity and site maps	A.5.a
7	Show drainage patterns and slopes anticipated after grading activities are completed	A.5.b.(1)
8	Show all calculations for anticipated storm water run-on, and describe all BMPs implemented to divert off-site drainage described in Section A.5.a.2.(c)	A.5.b.(1)
9	Show drainage patterns into each on-site storm water inlet point or receiving water	A.5.b.(2)
10	Show or describe the BMPs that will protect operational storm water inlets or receiving waters from contaminated discharges other than sediment discharges	A.5.b.(2)
11	Show existing site features that, as a result of known past usage, may contribute pollutants to storm water	A.5.b.(3)
12	Show or describe the BMPs implemented to minimize the exposure of storm water to contaminated soil or toxic materials	A.5.b.(3)
13	Show areas designated for: the storage of soil or waste; vehicle storage and service areas; construction material loading, unloading, and access areas; and, equipment storage, cleaning, and maintenance areas	A.5.b.(4)
14	Describe the BMPs for control of discharges from waste handling and disposal areas and methods of on-site storage and disposal of construction materials and construction waste	A.5.b.(5)
15	Describe the BMPs designed to minimize or eliminate the exposure of storm water to construction materials, equipment, vehicles, waste storage areas, or service areas	A.5.b.(5)
16	Describe all post-construction BMPs for the project, and show the location of each BMP on the map	A.5.b.(6)

Description		Permit Section
17	Describe the agency or parties to be the responsible party for long-term maintenance of these BMPs	A.5.b.(6)
18	Include a narrative description of pollutant sources and BMPs that cannot be adequately communicated or identified on the site map	A.5.c.(1)
19	Include a narrative description of pre-construction control practices (if any) to reduce sediment and other pollutants in storm water discharges	A.5.c.(1)
20	Include an inventory of all materials used and activities performed during construction that have the potential to contribute to the discharge of pollutants other than sediment in storm water. Describe the BMPs selected and the basis for their selection to eliminate or reduce these pollutants in the storm water discharges	A.5.c.(2)
21	Include the following information regarding the construction site surface area: the size (in acres or square feet); the runoff coefficient before and after construction; and, the percentage that is impervious (e.g., paved, roofed, etc.) before and after construction	A.5.c.(3)
22	Include a copy of the State NOI, and the Waste Discharge Identification (WDID) number, if available	A.5.c.(4)
23	Include a construction activity schedule which describes all major activities, such as mass grading, paving, lot or parcel improvements at the site, and the proposed time frame to conduct these activities	A.5.c.(5)
24	List the name and telephone number of the qualified person(s) assigned responsibility for pre-storm, post-storm, and storm event BMP inspections, and the qualified person(s) assigned responsibility to ensure full compliance with the Permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and elimination of all unauthorized discharges	A.5.c.(6)
25	Include a description of erosion control practices, including a time schedule, to be implemented during construction to minimize erosion on disturbed areas of a construction site	A.6
26	Include an outline of the areas of vegetative soil cover and native vegetation onsite which will remain undisturbed during the construction project	A.6.a.(1)
27	Include an outline of all areas of soil disturbance including cut or fill areas which will be stabilized during the rainy season by temporary or permanent erosion control measures, such as seeding, mulching, or blanketing, etc.	A.6.a.(2)
28	Include an outline of the areas of soil disturbance, cut, or fill which will be left exposed during any part of the rainy season, representing areas of potential soil erosion where sediment control BMPs are required to be used during construction	A.6.a.(3)
29	Include a proposed schedule for the implementation of erosion control measures	A.6.a.(4)
30	Include a description of the BMPs and control practices to be used for both temporary and permanent erosion control measures	A.6.b
31	Include a description of the BMPs to reduce wind erosion at all times, with particular attention paid to stockpiled materials	A.6.c
32	Include a description or illustration of BMPs which will be implemented to prevent a net increase of sediment load in storm water discharge relative to pre-construction levels	A.8
33	Include a proposed schedule for deployment of sediment control BMPs	A.8
34	Describe a plan to establish perimeter controls prior to the onset of rain, if work on active areas precludes the use of sediment control BMPs temporarily, with prior authorization from the San Diego Regional Water Quality Control Board.	A.8
35	Include a description of the BMPs to reduce the tracking of sediment onto public or private roads at all times	A.8
36	Discuss road cleaning BMPs (washing of accumulated sediment or silt into the storm drain system is not permitted)	A.8

Description		Permit Section
37	Describe all non-storm water discharges to receiving waters that are proposed for the construction project. Include the locations of such discharges and descriptions of all BMPs designed for the control of pollutants in such discharges	A.9
38	Include the name and contact number of the qualified person assigned the responsibility of ensuring that no materials are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems (consistent with BAT/BCT)	A.9
39	Include descriptions of the BMPs to reduce pollutants in storm water discharges after all construction phases have been completed at the site (post-construction BMPs)	A.10
40	Address operation and maintenance of control practices after construction is completed, including short- and long-term funding sources and the responsible party	A.10
41	Include a discussion of the program to inspect and maintain all BMPs as identified in the site plan or other narrative documents throughout the entire duration of the project	A.11
42	Include the name and telephone number of the qualified person assigned the responsibility of conducting inspections and maintenance of all BMPs	A.11
43	Document all training of individuals responsible for SWPPP preparation, implementation, and permit compliance	A.12
44	List names, telephone numbers, and addresses of all contractors (or subcontractors) and individuals responsible for implementation of the SWPPP. Specific areas of responsibility of each subcontractor and emergency contact numbers should also be included	A.13

	ENGINEERING AND GENERAL SERVICES DEPARTMENT 276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5021 Fax: (619) 691-5171	CONSTRUCTION STORM WATER MANAGEMENT PLAN (CSWMP) GUIDELINES FOR PRIVATE DEVELOPMENT
FORM 5504A		

This form is to accompany all private development and redevelopment permit applications not subject to the NPDES General Construction Permit.

In order to comply with the Federal Clean Water Act, the State Water Code, and City of Chula Vista Ordinances, the City of Chula Vista requires that property owners complete a Construction Storm Water Management Plan (CSWMP) prior to issuance of any permit not subject to NPDES General Construction Permit requirements. Projects that are subject to the NPDES General Construction Permit will be required to file a Notice of Intent (NOI) with the State Water Resources Control Board and to submit a Storm Water Pollution Prevention Plan (SWPPP) to the San Diego Regional Water Quality Control Board and the City of Chula Vista, if required by the Engineering and General Services Department.

The purpose of the CSWMP is to document Best Management Practices (BMPs) that will be implemented to prevent pollutants, including sediment, from entering the storm water conveyance system and receiving waters. The CSWMP becomes a part of the permit and is subject to enforcement by the City and others.

CSWMPs include the elements described in the following sections:

Section 1: Required Information - This section is used to provide the City with basic information necessary to evaluate project activities. Each of the items in this section must be completed.

Section 2: Best Management Practices (BMPs) –BMPs must be selected and implemented to prevent erosion and to prevent construction-related materials, sediment, wastes and spills from entering the storm water conveyance system and receiving waters.

Note: It is the responsibility of the property owner and the contractor to determine the types of BMPs that will be used, as well as the levels of application necessary to comply with the City's Storm Water and Grading Ordinances. Failure to prevent soil erosion and discharges of sediment and other pollutants from construction sites is subject to enforcement by the City and others. At a minimum, the City requires that the BMPs listed in Table A (attached) be installed and maintained for all projects. Additional BMPs listed in Table B (attached) may also be required depending on the project's scope, potential for discharges, and proximity to a watercourse or other receiving waters.

Section 3: Certification – The property owner and contractor must sign this section certifying that they understand the City's minimum requirements for storm water management of construction activities and will implement, monitor, and maintain the selected BMPs to ensure their continual effectiveness.

Copies of the referenced guidance manuals can be obtained from the web or can be ordered directly from the following sources:

1. Caltrans Manuals can be ordered from Caltrans Publications Unit, Phone (916) 445-3520
2. California Stormwater Quality Association Stormwater BMP Handbook for Construction is available online at: <http://www.cabmphandbooks.com>
3. City of Chula Vista Development Storm Water Manual is available online at: http://www.chulavistaca.gov/City_Services/Development_Services/Engineering/stormWaterManual.asp

Section 1: Required Information

PROJECT INFORMATION

Permit Application Number:	
Project Name:	Grading start date:
Project address or location:	Grading finish date:
APN:	Project start date:
Estimated amount of disturbed acreage:	Project finish date:

CONTACT INFORMATION

Name of Project Contact Person:
Title:
Address:
Phone #:

Section 2: Best Management Practices

The goal of storm water management planning is to reduce pollution to the Maximum Extent Practicable (MEP) by implementing the following five categories of BMPs:

1. Erosion control
2. Velocity reduction
3. Sediment control
4. Offsite sediment tracking control
5. General site and materials management

BMPs from each of the five categories must be used together as a system in order to prevent sediment, wastes, spills, and residues from leaving the site. When properly implemented, monitored, and maintained, BMPs will function to prevent pollutants (including sediment) from leaving the site.

Best Management Practices Tables

Tables A and B (attached) must be used to identify those BMPs that will be used to prevent storm water pollution. At a minimum, the City requires that the BMPs listed in Table A be installed on all grading and building projects. However, some BMPs may not be applicable to every project. For example, if storm drain inlets are not present, then Storm Drain Inlet Protection (BMP SC10) would not be applicable.

Grading Plan/Improvement Plan Best Management Practice Checklist

The following information shall be shown on the plans:

1. Project boundaries
2. Footprint of any existing structures and facilities
3. Footprint of all structures and facilities to be constructed

4. Limits of grading
5. Existing and proposed site grades, along with any intermediate grades that will significantly affect the site drainage patterns
6. Location(s) where runoff from the site may enter storm drain(s), channel(s), and/or receiving waters
7. Permanent BMPs

TABLE A - REQUIRED MINIMUM CONSTRUCTION BMPs

Minimum Required BMPs	Caltrans Handbook Detail	Check Selected BMPs	If BMP is not selected, explain why.
Step 1 – Select erosion control method for graded slopes (choose at least one)			
Vegetation Stabilization Planting (see note 1)	SS-2, SS-4		
Hydraulic Stabilization Hydroseeding (see note 1)	SS-3, SS-4		
Bonded Fiber Matrix (see note 2)	SS-4		
Physical Stabilization Erosion Control Blanket (see note 2)	SS-7		
Step 2 – Select erosion control method for graded flat areas (slope < 5%) (choose at least one)			
Will use above Erosion Control methods on flat areas	SS-2, 3, 4,		
Mulch, straw, wood chips, soil application	SS-6, SS-8		
De-silting basin (must treat all site runoff)	SC-2		
Step 3 – If runoff is concentrated, velocity must be controlled using energy dissipater			
Energy Dissipater Outlet Protection (see note 3)	SS-10		
Step 4 – Select sediment control method for all disturbed areas (choose at least one)			
Silt Fence	SC-1		
Straw Wattles	SC-5		
Gravel Bags	SC-6, SC-8		
Storm Drain Inlet Protection	SC-10		
De-silting Basin (sized for 10-year flow)	SC-2		
Step 5 – Select method for preventing offsite tracking of sediment (choose at least one)			
Stabilized Construction Entrance	TC-1		
Construction Road Stabilization	TC-2		
Entrance/Exit Tire Wash	TC-3		
Entrance/Exit Inspection and Cleaning Facility	-		
Step 6 – Select the general site management BMPs for each waste that will be on site			
Materials Management, Materials Delivery, and Storage	WM-1		
Concrete Waste Management	WM-8		
Solid Waste Management	WM-5		
Sanitary Waste Management	WM-9		
Hazardous Waste Management	WM-6		
Step 7 – General site management			
Employee and Subcontractor Training	-		

Notes:

1. When planting or hydroseeding are selected for erosion control, the vegetative cover must be planted by August 15th and established by October 1st. If in the opinion of the City Official the vegetative cover is not established by October 1st, additional hydraulic or physical erosion control BMPs will be required.
2. These BMPs are temporary measures only when used without planting or hydroseeding and permanent irrigation systems. All slopes must have established vegetative cover prior to final grading approval.
3. Regional Standard Drawing D-40 – Rip Rap energy Dissipater is also acceptable for velocity reduction.
4. Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be on-site and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 should be selected.
5. Alternative storm water protection measures, such as those listed in the CASQA Stormwater Best Management Practice Handbook, may also be presented for City consideration in any category.
6. All selected BMPs must be shown on the Grading Plans.

TABLE B - RECOMMENDED BMPs FOR USE IN CONJUNCTION WITH MINIMUM BMPs

Recommended Best Management Practices (BMPs)	Caltrans Handbook Detail	Check Selected BMP
Step 1 – Site Development Considerations		
Scheduling	SS-1	
Preservation of Existing Vegetation	SS-2	
Vegetation Stabilization, Vegetation Buffer Strips	SS-2	
Physical Stabilization, Dust Control	WE-1	
Soil Stabilizers	SS-5	
Other (submit description for approval)		
Step 2 – Diversion of Runoff		
Earthen Dikes	SS-9	
Ditches and Berms	SS-9	
Slope Drains	SS-11	
Temporary Drains & Swales	SS-9	
Step 3 – Velocity Reduction		
Check Dams	SS-4	
Slope Terracing	-	
Step 4 – Sediment Control		
Brush or Rock Filter	-	
Sediment Trap	SC-3	
Sediment Basin	SC-2	
Step 5 – General Site Management		
Employee and Subcontractor Training	-	
Materials Management, Spill Prevention and Control	WM-4	
Waste Management, Contaminated Soil Management	WM-7	
Vehicle and Equipment Management: Vehicle and Equipment Cleaning	NS-8	
Vehicle and Equipment Fueling	NS-9	
Vehicle and Equipment Maintenance	NS-10	
Construction Practices: Water Conservation	NS-1	
Structure Construction and Painting	-	
Paving Operations	NS-3	
Dewatering Operations	NS-2	

Note: Alternative storm water protection measures may also be presented for City consideration in any category.

Section 3: Certification

The following certification must be signed before a Permit will be issued.

I have read and understand that the City of Chula Vista has adopted minimum requirements for storm water management of construction activities. I certify that the BMPs I have selected in Tables A and B will be implemented to effectively minimize the potentially negative impacts of this project's construction activities on storm water quality. I further agree to install, monitor, maintain, or revise, if necessary, the selected BMPs to ensure their effectiveness.


I also understand that non-compliance with the City's Storm Water and Grading Ordinances may result in enforcement by the City, including fines, citations, stop-work orders, cease and desist orders and other actions.

Company Name: _____ Contractor's Name: _____

Contractor's Signature: _____ Date: _____

Property Owner's Name: _____

Property Owner's Signature: _____ Date _____

	ENGINEERING AND GENERAL SERVICES DEPARTMENT 276 Fourth Avenue, Chula Vista, CA 91910 Phone: (619) 691-5021 Fax: (619) 691-5171	CONSTRUCTION STORM WATER MANAGEMENT PLAN (CSWMP) GUIDELINES FOR PUBLIC PROJECTS
FORM 5504B		

This form is to accompany all public development and redevelopment contract documents for projects that are not subject to the NPDES General Construction Permit requirements

In order to comply with the Federal Clean Water Act, the State Water Code, and City of Chula Vista Ordinances, the City of Chula Vista requires contractors to complete a Construction Storm Water Management Plan (CSWMP) for Public Projects that are not subject to the NPDES General Construction Permit requirements prior to issuance of a "Notice to Proceed" with construction.

The purpose of a CSWMP is to document the Best Management Practices (BMPs) that will be implemented to prevent pollutants, including sediment, from entering storm water conveyance systems and receiving waters. The CSWMP becomes a part of the contract and is subject to enforcement by the City and others. CSWMP includes the elements described in the following sections:

Section 1: Required Information

This section is used to provide the City with basic information necessary to evaluate project activities. Each of the items in this section must be completed.

Section 2: Best Management Practices (BMPs)

BMPs must be selected and implemented to prevent erosion, and prevent construction-related materials, sediment, wastes and spills from entering storm water conveyance systems and receiving waters.

Note: It is the responsibility of the contractor to determine the types of BMPs that will be used, as well as the levels of application necessary to comply with the City's Storm Water and Grading Ordinances. Failure to prevent soil erosion and discharges of sediment and other pollutants into the storm water conveyance system from construction sites is subject to enforcement by the City and others. At a minimum, the City requires that the BMPs listed in Table A (attached) be installed and maintained for all projects. Additional BMPs listed in Table B (attached) may also be required, depending on the project's scope, potential for discharges, and proximity to a watercourse or other receiving waters.

Section 3: Certification

The contractor must sign this section certifying that they understand the City's minimum requirements for storm water management of construction activities and will implement, monitor and maintain the selected BMPs to ensure their effectiveness.

Copies of the referenced guidance manuals can be obtained from the web or can be ordered directly from the following sources:

1. Caltrans Manuals can be ordered from Caltrans Publications Unit, Phone (916) 445-3520
2. California Stormwater Quality Association Stormwater BMP Handbook for Construction is available online at: <http://www.cabmphandbooks.com>
3. City of Chula Vista Development Storm Water Manual is available online at: http://www.chulavistaca.gov/City_Services/Development_Services/Engineering/stormWaterManual.asp

Section 1. Required Information

PROJECT INFORMATION

Permit Application Number:	
Project Name:	Grading start date:
Project address or location:	Grading finish date:
APN:	Project start date:
Estimated amount of disturbed acreage:	Project finish date:

CONTACT INFORMATION

Name of Project Contact Person:
Title:
Address:
Phone #:

Section 2: Best Management Practices

The goal of storm water management planning is to reduce pollution to the Maximum Extent Practicable (MEP) by implementing the following five categories of BMPs:

1. Erosion control
2. Velocity reduction
3. Sediment control
4. Offsite sediment tracking control
5. General site and materials management

BMPs from each of the five categories must be used together as a system in order to prevent sediment, wastes, spills, and residues from leaving the site. When properly implemented, monitored, and maintained, BMPs will function to prevent pollutants (including sediment) from leaving the site.

Best Management Practices Tables

Tables A and B (attached) must be used to indicate those BMPs that will be used to prevent storm water pollution. At a minimum, the City requires that the BMPs listed in Table A be installed on all grading and building projects. However, some BMPs may not be applicable to every project. For example, if storm drain inlets are not present, then Storm Drain Inlet Protection (BMP SC10) would not be applicable.

TABLE A – REQUIRED MINIMUM CONSTRUCTION BMPs

Minimum Required BMPs	Caltrans Handbook Detail	Check Selected BMPs	If BMP is not selected, explain why.
Step 1 – Select erosion control method for graded slopes (choose at least one)			
Vegetation Stabilization Planting (see note 1)	SS-2, SS-4		
Hydraulic Stabilization Hydroseeding (see note 1)	SS-3, SS-4		
Bonded Fiber Matrix (see note 2)	SS-4		
Physical Stabilization Erosion Control Blanket (see note 2)	SS-7		
Step 2 – Select erosion control method for graded flat areas (slope < 5%) (choose at least one)			
Will use above erosion control measures on flat areas	SS-2, 3, 4, 7		
Mulch, straw, wood chips, soil application	SS-6, SS-8		
De-silting basin (must treat all site runoff)	SC-2		
Step 3 – If runoff is concentrated, velocity must be controlled using energy dissipater			
Energy Dissipater Outlet Protection (see note 3)	SS-10		
Step 4 – Select sediment control method for all disturbed areas (choose at least one)			
Silt Fence	SC-1		
Straw Wattles	SC-5		
Gravel Bags	SC-6, SC-8		
Storm Drain Inlet Protection	SC-10		
De-silting Basin (sized for 10-year flow)	SC-2		
Step 5 – Select method for preventing offsite tracking of sediment (choose at least one)			
Stabilized Construction Entrance	TC-1		
Construction Road Stabilization	TC-2		
Entrance/Exit Tire Wash	TC-3		
Entrance/Exit Inspection and Cleaning Facility	-		
Step 6 – Select the general site management BMPs for each waste that will be on site			
Materials Management, Materials Delivery, and Storage	WM-1		
Concrete Waste Management	WM-8		
Solid Waste Management	WM-5		
Sanitary Waste Management	WM-9		
Hazardous Waste Management	WM-6		
Step 7 – General site management			
Employee and Subcontractor Training	-		

Notes:

1. When planting or hydroseeding are selected for erosion control, the vegetative cover must be planted by August 15th and established by October 1st. If in the opinion of the City Official the vegetative cover is not established by October 1st, additional hydraulic or physical erosion control BMPs will be required.
2. These BMPs are temporary measures only when used without planting or hydroseeding and permanent irrigations systems. All slopes must have established vegetative cover prior to final grading approval.
3. Regional Standard Drawing D-40 – Rip Rap energy Dissipater is also acceptable for velocity reduction.
4. Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be on-site and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 should be selected.
5. Alternative storm water protection measures, such as those listed in the CASQA Stormwater Best Management Practice Handbook, may also be presented for City consideration in any category.

TABLE B – RECOMMENDED BMPs FOR USE IN CONJUNCTION WITH MINIMUM BMPs

Recommended Best Management Practices (BMPs)	Caltrans Handbook Detail	Check Selected BMP
Step 1 – Site Development Considerations		
Scheduling	SS-1	
Preservation of Existing Vegetation	SS-2	
Vegetation Stabilization, Vegetation Buffer Strips	SS-2	
Physical Stabilization, Dust Control	WE-1	
Soil Stabilizers	SS-5	
Other (submit description for approval)		
Step 2 – Diversion of Runoff		
Earthen Dikes	SS-9	
Ditches and Berms	SS-9	
Slope Drains	SS-11	
Temporary Drains & Swales	SS-9	
Step 3 – Velocity Reduction		
Check Dams	SS-4	
Slope Terracing	-	
Step 4 – Sediment Control		
Brush or Rock Filter	-	
Sediment Trap	SC-3	
Sediment Basin	SC-2	
Step 5 – General Site Management		
Employee and Subcontractor Training	-	
Materials Management, Spill Prevention and Control	WM-4	
Waste Management, Contaminated Soil Management	WM-7	
Vehicle and Equipment Management: Vehicle and Equipment Cleaning	NS-8	
Vehicle and Equipment Fueling	NS-9	
Vehicle and Equipment Maintenance	NS-10	
Construction Practices: Water Conservation	NS-1	
Structure Construction and Painting	-	
Paving Operations	NS-3	
Dewatering Operations	NS-2	

Note: Alternative storm water protection measures may also be presented for City consideration in any category.

Section 3: Certification

The following certification must be signed before a “Notice to Proceed with Construction” will be issued.

I have read and understand that the City of Chula Vista has adopted minimum requirements for storm water management of construction activities. I certify that the BMPs I have selected in Tables A and B will be implemented to effectively minimize the potentially negative impacts of this project's construction activities on storm water quality. I further agree to install, monitor, maintain, and revise, if necessary, the selected BMPs to ensure their effectiveness.

I also understand that non-compliance with the City's Storm Water and Grading Ordinances may result in enforcement by the City including fines, citations, stop-work orders, cease and desist orders, and other enforcement actions.

Company Name: _____ Contractor's Name: _____

Contractor's Signature: _____ Date: _____